

<b>Notice of Allowability</b>	<b>Application No.</b>	<b>Applicant(s)</b>
	09/893,645	BROOK, JOHN CHARLES
	<b>Examiner</b>	<b>Art Unit</b>
	Tran A. Quoc	2176

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1.  This communication is responsive to RCE/Amendments filed 05-21-2007.

2.  The allowed claim(s) is/are 1-7, 10-13, 15-16, 20-22, 26, 59-60, 34, 62, 44, and 47-48 (renumbering as 1-24 respectively).

3.  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)  All    b)  Some\*    c)  None    of the:

1.  Certified copies of the priority documents have been received.

2.  Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.

3.  Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4.  A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5.  CORRECTED DRAWINGS (as "replacement sheets") must be submitted.

(a)  including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached

1)  hereto or 2)  to Paper No./Mail Date \_\_\_\_\_.

(b)  including changes required by the attached Examiner's Amendment / Comment or in the Office action of  
Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6.  DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

#### Attachment(s)

- |  |  |
|--|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)   | 5. <input type="checkbox"/> Notice of Informal Patent Application                      |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),<br>Paper No./Mail Date _____.   | 7. <input type="checkbox"/> Examiner's Amendment/Comment                               |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance   |
|  | 9. <input type="checkbox"/> Other _____.   |



Doug Hutton  
Primary Examiner  
Technology Center 2100



## REASONS FOR ALLOWANCE

Claims 1-7, 10-13, 15-16, 20-22, 26, 59-60, 34, 62, 44, and 47-48 are allowed over the prior art of record.

The following is a statement of reasons for the indication of allowable subject matter:

In interpreting the claims in light of the specification and applicant's Amendment filed 05-21-2007. Examiner finds the claimed invention is patentably distinct from the prior art of record.

The prior art of record Hind (US006635088B1), in view of Girardot (US006883137B1), which set forth in the previous rejection mailed on 12-22-2006.

The prior art of record taught most of the Applicant's claimed limitation, but does not expressly teach the amended portions discloses in the RCE/amendments filed 05-21-2007 " start tag and of said end tag generates corresponding hashed start and end tags; wherein corresponding hashed start and end tags for the first pair of tags are incorporated into the encoded representation of the document; wherein the document further includes a second pair of tags comprising respective start and end tags, the second pair of tags being nested within the first pair of tags in the document, and said method comprising further steps of processing the second pair of tags to form corresponding second hashed start and end tags; and augmenting the encoded representation of the document using the corresponding second hashed start and end tags so that the second hashed start and end tags indicate a nesting in relation to the hashed start and end tags for the first pair of tags which is equivalent to the nesting of the second pair of tags within the first pair of tags."

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In addition, the Examiner equates the claimed as equivalent to the following:

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105 <Shakespeare>  
110 <!--This is a comment-->  
115 <div class="preface" Name1="value1" name2="value2">  
120 <mult list=<> </mult>  
125 <banquo>  
130 Say [1]  
135 <quote>  
140 goodnight </quote>,  
145 Hamlet.</banquo>  
150 <Hamlet><quote>Goodnight, Hamlet. </quote></Hamlet>  
155 <1 Shakespeare>

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the XML fragment [1] yields the following hierarchical representation of parsed mark-up tags in the sub-process fig. 2 item, 212, place element string into memory representation of document structure as shows in [2]: (see current disclosure para 6, 227 fig. 2, and 3),

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206	Shakespeare	
215	div	
220	mult	
221	/mult	
225	banquo	
235		quote
240		quote [2]
245	/banquo	
250	Hamlet	
251		quote
252		/quote
253	/Hamlet	
255	/Shakespeare	

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The equivalent hierarchical representation is depicted in [3]. The hierarchical representation in [3] is made up of parsed hashed mark-up tags, wherein a domain of tag names is constrained to those shown in the following Table 1, and a hash mapping (which is functionally equivalent to application of a hash "function") is shown in the following table: (see current disclosure para 228 and table 1)

TABLE 1

Hash Mapping

Tag	Hash Code Number
Shakespeare	133
Div	326
Mult	371
Banquo	787
Quote	629
Hamlet	411

Based on the above hash mapping, the following hierarchical representation of the XML fragment shown in [1] results shows in [3]: (see current disclosure para 2290

205	133		
215	326		
222	371		
223	/371		
225	787		
235		629	
240		/629	[3]
245	/787		
254	411		
255		629	
256		/629	
257	/411		
255	/133		

and the results from [1] with tags in the hashed formed based on [2], hash mapping table 1, and [3], has the following form: (see current disclosure para 239)

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```
505 <133>
110 <!-This is a comment-->
515 <326 class="preface" Name1="value1" name2="value2">
520 <371 list=&It;></371>
525 <787>
130 Say [4]
535 <629>
540 goodnight </629>,
545 Hamlet.</787>
550 <411><629>Goodnight, Hamlet. </629></411>
555 </133>
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The Examiner asserts that the claims overcome the prior art of record when the limitations are read in combination with the respective claimed limitations in their entirety.

The dependent claims, being further limiting to the independent claims, definite and enabled by the Specification are also allowed.

### *Conclusion*

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Quoc A. Tran whose telephone number is 571-272-8664. The examiner can normally be reached on 9AM - 5PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Doug Hutton can be reached on 571-272-4137. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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7-2-2002

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